



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Date of Report: 04/27/2018

Victorio Tostado

City of Patterson
P.O. Box 667
Patterson, CA 95363

Client Project: Soilds Clean Up
BCL Project: Biosolids
BCL Work Order: 1811057
Invoice ID: B301859

Enclosed are the results of analyses for samples received by the laboratory on 4/5/2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Modified WET Test (STLC)

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Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1811057 Page 1 of 4

BC Laboratories, Inc. 7-11057 Chain of Custody Form

Client: City of Patterson Project #: Solids clean up

Attn: Attn:

Street Address: 14901 Poplar Ave Solids clean up
City, State, Zip: Patterson CA 93308 Sampler(s): Jose Carty

Phone:

Fax:

Email Address:

Work Order #:

Sample #:

Description Date Sampled Time Sampled

1

Analysis Requested

Soil	Solids	Dredging Waste	Ground Water	Drinking Water	Waste Water	Other	Comments:
							<i>Self Attached Sheets</i>
							Sample Matrix turnaround days * If more than 48 hours <input type="checkbox"/> Yes <input type="checkbox"/> No <small>* Standard Turnaround = 10 work days</small>
							Notes
<i>1811057</i>							

Billing

Same as above

EDF Required? Geotracker
 Yes No

Client: _____
Address: _____
City: _____ State: _____ Zip: _____
Attn: _____ PO#: _____

Global ID (Needed for EDF)		Date	Time	1. Received By	Date	Time	2. Received By	Date	Time	3. Received By	Date	Time	System # (Needed for EDF)
1. Relinquished By	<i>Denali</i>	4-5-18	10:22 AM	<i>M. Peeler</i>	4-5-18	10:22 AM	<i>M. Peeler</i>	4-5-18	10:22 AM	<i>M. Peeler</i>	4-5-18	10:22 AM	1212
2. Relinquished By	<i>M. Peeler</i>	4/5/18	10:22 AM	<i>M. Peeler</i>	4/5/18	10:22 AM	<i>M. Peeler</i>	4/5/18	10:22 AM	<i>M. Peeler</i>	4/5/18	10:22 AM	
Send Copy to State of CA? (EDF)	<input type="checkbox"/> Yes <input type="checkbox"/> No												

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1811057 Page 2 of 4



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1710067 Page 3 of 3

18-11057

13-10784 11/13

17-10067

City of Patterson
WQCF
Date: 4/13/17

Descrete 1:

Land Use Annual Biosolids
Coliform - LTB Series (35 tube)
Descrete 1 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 2:

Coliform - LTB Series (35 tube)
Descrete 2 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 3:

Coliform - LTB Series (35 tube)
Descrete 3 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 4:

Coliform - LTB Series (35 tube),
Descrete 4 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 5:

Coliform - LTB Series (35 tube)
Descrete 5 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 6:

Coliform - LTB Series (35 tube)
Descrete 6 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 7:

Coliform - LTB Series (35 tube)
Descrete 7 Wet Chemistry
Run % moisture, then composite sample 1-7 for sample 8 analyses

Composite Sample of 1-7

Wet chemistry - NH3-N, Conductivity, Na3-N, N-organic, Total-N, TKN, pH, TDS and % solids

Composite sample of 1-7

Metals, Total-AS, Cd, Cr, Cu, pb, Hg, Mo, Ni, P, K, Se, and Zn (please report dry wet)

Composite sample of 1-7

Sub-organic - EPA 8081

Composite sample of 1-7

Sub-organic - EPA 8082

Composite sample of 1-7

EPA 8270
(8oz glass jar)

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Chain of Custody and Cooler Receipt Form for 1811057 Page 3 of 4



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

18-11057

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Modified WET Test (STLC)

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1811057 Page 4 of 4

BC LABORATORIES INC.		COOLER RECEIPT FORM					Page <u>1</u> Of <u>1</u>				
Submission #: <u>18-11057</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____						SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S			
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: Custody Seals Ice Chest <input checked="" type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: Container <u>95%</u> Thermometer ID: _____ Temperature: (A) <u>40m</u> °C / (C) <u>104</u> °C		Date/Time <u>4/15/2016</u>		Analyst Init <u>ESB</u>					
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PT PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL 504											
QT EPA 506/608/8080											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG		A	A	A	A	A	A	A	A	A	
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											
Comments: _____											
Sample Numbering Completed By: <u>JMC</u> Date/Time: <u>4-16-18</u> Rev 21 05/23/2016											
A = Actual / C = Corrected Report ID: 1000737307 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 7 of 53											

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Denali_006578



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
1811057-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 1 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		
1811057-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 2 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		
1811057-03	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 3 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		
1811057-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 4 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		
1811057-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 5 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		
1811057-06	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 6 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		
1811057-07	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Descrete 7 Sampled By: Jose C.		Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		

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Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1811057-08	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Composite Sample of 1-7 Sampled By: Jose C.	Receive Date: 04/05/2018 22:20 Sampling Date: 04/05/2018 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Other		

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-01

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 1	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	3.7x10^6	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.0010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	4/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	1.7x10^6	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-02

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 2	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	2.6x10^6	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.0010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	3.8x10^5	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-03

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 3	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	4/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	1.8x10^6	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.00000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	4/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	1.8x10^6	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-04

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 4	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	4/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	5.8x10^7	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.00000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	4/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	2.4x10^6	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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City of Patterson
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Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-05

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 5	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	0/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	2.6x10^6	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.0010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	4/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	1.7x10^6	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-06

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 6	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	5.9x10^6	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.00000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	4/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	1/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	1.8x10^6	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

1811057-07

Bacteriological Analysis

COC Number:	---	District ID:
Project Number:	---	System Number:
Sampling Location:	---	Station Number:
Sampling Point:	Descrete 7	Sample Site:
Sampled By:	Jose C.	Residual Chlorine, ppm:
Receive Date:	04/05/2018 22:20	Temperature, C:
Sampling Date:	04/05/2018 00:00	
Sample Depth:	---	
Sample Matrix:	Solids	

Multiple Tube Fermentation (Multiple Dilutions)

Constituent	Result	Units	Method	Analyst	Initial Dilution	Date Started	Date Completed	Lab Quals
Total Coliform, Dilution1 Amount	0.00010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Amount	0.000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Amount	0.0000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Amount	0.00000010	mL	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution3 Tubes	5/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Total Coliform, Density	5.8x10^6	MPN/gm	SM-9221B	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Amount	0.00010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Amount	0.0000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Amount	0.00000010	mL	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution1 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution2 Tubes	5/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution3 Tubes	4/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Dilution4 Tubes	2/5	Positive Tubes	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	
Fecal Coliform, Density	2.4x10^6	MPN/gm	SM-9221E	FBV	1	04/10/2018 11:00	04/12/2018	

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-01	Client Sample Name: Descrete 1, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals
Solids	94.4	%		0.05	0.05	SM-2540G		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-02	Client Sample Name:	Descrete 2, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Solids		92.6	%	0.05	0.05	SM-2540G			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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City of Patterson
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Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-03	Client Sample Name: Descrete 3, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals
Solids	93.9	%		0.05	0.05	SM-2540G		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-04	Client Sample Name: Descrete 4, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals
Solids	93.4	%		0.05	0.05	SM-2540G		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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City of Patterson
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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-05	Client Sample Name: Descrete 5, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals
Solids	91.6	%		0.05	0.05	SM-2540G		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-06	Client Sample Name: Descrete 6, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals
Solids		92.1	%	0.05	0.05	SM-2540G		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-07	Client Sample Name: Descrete 7, 4/5/2018 12:00:00AM, Jose C.						
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals
Solids		92.6	%	0.05	0.05	SM-2540G		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-2540G	04/16/18 10:00	04/16/18 10:00	DRC	MANUAL	1	B010889

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.								
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Aldrin	ND	ND	mg/kg	0.015	0.0015	EPA-8080	ND	A10	1	
Dieldrin	ND	ND	mg/kg	0.015	0.0013	EPA-8080	ND	A10	1	
PCB-1016	ND	ND	mg/kg	0.30	0.078	EPA-8080	ND	A10	1	
PCB-1221	ND	ND	mg/kg	0.30	0.072	EPA-8080	ND	A10	1	
PCB-1232	ND	ND	mg/kg	0.30	0.13	EPA-8080	ND	A10	1	
PCB-1242	ND	ND	mg/kg	0.30	0.18	EPA-8080	ND	A10	1	
PCB-1248	ND	ND	mg/kg	0.30	0.11	EPA-8080	ND	A10	1	
PCB-1254	ND	ND	mg/kg	0.30	0.090	EPA-8080	ND	A10	1	
PCB-1260	ND	ND	mg/kg	0.30	0.17	EPA-8080	ND	A10	1	
PCB-1262	ND	ND	mg/kg	0.30	0.17	EPA-8080	ND	A10	1	
PCB-1268	ND	ND	mg/kg	0.30	0.057	EPA-8080	ND	A10	1	
Total PCB's (Summation)	ND	ND	mg/kg	0.30	0.15	EPA-8080	ND	A10	1	
TCMX (Surrogate)	816	816	%	20 - 130 (LCL - UCL)		EPA-8080	A10,S09		1	
Decachlorobiphenyl (Surrogate)	76.9	76.9	%	40 - 130 (LCL - UCL)		EPA-8080	A10		1	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8080	04/12/18 11:00	04/12/18 17:50	HKS	GC-17	30	B010654

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03

Project: Biosolids

Project Number: Soilds Clean Up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ND	mg/kg	0.54	0.050	EPA-8270C	ND		1
Acenaphthylene	ND	ND	mg/kg	0.54	0.098	EPA-8270C	ND		1
Aldrin	ND	ND	mg/kg	0.54	0.087	EPA-8270C	ND		1
Aniline	ND	ND	mg/kg	1.1	0.087	EPA-8270C	ND		1
Anthracene	ND	ND	mg/kg	0.54	0.27	EPA-8270C	ND		1
Benzidine	ND	ND	mg/kg	16	0.32	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ND	mg/kg	0.54	0.22	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ND	mg/kg	0.54	0.051	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ND	mg/kg	0.54	0.092	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ND	mg/kg	0.54	0.14	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ND	mg/kg	0.54	0.060	EPA-8270C	ND		1
Benzoic acid	ND	ND	mg/kg	2.7	0.31	EPA-8270C	ND		1
Benzyl alcohol	ND	ND	mg/kg	0.54	0.040	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ND	mg/kg	0.54	0.18	EPA-8270C	ND		1
alpha-BHC	ND	ND	mg/kg	0.54	0.19	EPA-8270C	ND		1
beta-BHC	ND	ND	mg/kg	0.54	0.22	EPA-8270C	ND		1
delta-BHC	ND	ND	mg/kg	0.54	0.098	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ND	mg/kg	0.54	0.14	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ND	mg/kg	0.54	0.24	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ND	mg/kg	0.54	0.14	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ND	mg/kg	0.54	0.082	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	0.48	0.45	mg/kg	1.1	0.17	EPA-8270C	ND	J	1
4-Bromophenyl phenyl ether	ND	ND	mg/kg	0.54	0.14	EPA-8270C	ND		1
4-Chloroaniline	ND	ND	mg/kg	0.54	0.082	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ND	mg/kg	0.54	0.065	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ND	mg/kg	0.54	0.060	EPA-8270C	ND		1
Chrysene	ND	ND	mg/kg	0.54	0.087	EPA-8270C	ND		1
4,4'-DDD	ND	ND	mg/kg	0.54	0.17	EPA-8270C	ND		1
4,4'-DDE	ND	ND	mg/kg	0.54	0.18	EPA-8270C	ND		1
4,4'-DDT	ND	ND	mg/kg	0.54	0.28	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ND	mg/kg	0.54	0.10	EPA-8270C	ND		1
Dibenzofuran	ND	ND	mg/kg	0.54	0.071	EPA-8270C	ND		1

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BC**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03

Project: Biosolids

Project Number: Soilds Clean Up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichlorobenzene	ND	ND	mg/kg	0.54	0.046	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	ND	mg/kg	0.54	0.065	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ND	mg/kg	0.54	0.098	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ND	mg/kg	1.1	0.13	EPA-8270C	ND		1
Dieldrin	ND	ND	mg/kg	0.54	0.17	EPA-8270C	ND		1
Diethyl phthalate	ND	ND	mg/kg	0.54	0.040	EPA-8270C	ND		1
Dimethyl phthalate	ND	ND	mg/kg	0.54	0.049	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ND	mg/kg	0.54	0.10	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ND	mg/kg	0.54	0.16	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ND	mg/kg	0.54	0.087	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ND	mg/kg	0.54	0.071	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ND	mg/kg	0.54	0.087	EPA-8270C	ND		1
Endosulfan I	ND	ND	mg/kg	1.1	0.34	EPA-8270C	ND		1
Endosulfan II	ND	ND	mg/kg	1.1	0.34	EPA-8270C	ND		1
Endosulfan sulfate	ND	ND	mg/kg	0.54	0.30	EPA-8270C	ND		1
Endrin	ND	ND	mg/kg	1.1	0.29	EPA-8270C	ND		1
Endrin aldehyde	ND	ND	mg/kg	2.7	0.24	EPA-8270C	ND		1
Fluoranthene	ND	ND	mg/kg	0.54	0.060	EPA-8270C	ND		1
Fluorene	ND	ND	mg/kg	0.54	0.071	EPA-8270C	ND		1
Heptachlor	ND	ND	mg/kg	0.54	0.13	EPA-8270C	ND		1
Heptachlor epoxide	ND	ND	mg/kg	0.54	0.35	EPA-8270C	ND		1
Hexachlorobenzene	ND	ND	mg/kg	0.54	0.065	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ND	mg/kg	0.54	0.11	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ND	mg/kg	0.54	0.16	EPA-8270C	ND		1
Hexachloroethane	ND	ND	mg/kg	0.54	0.17	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ND	mg/kg	0.54	0.071	EPA-8270C	ND		1
Isophorone	ND	ND	mg/kg	0.54	0.054	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ND	mg/kg	0.54	0.045	EPA-8270C	ND		1
Naphthalene	ND	ND	mg/kg	0.54	0.046	EPA-8270C	ND		1
2-Naphthylamine	ND	ND	mg/kg	16	0.21	EPA-8270C	ND		1
2-Nitroaniline	ND	ND	mg/kg	0.54	0.15	EPA-8270C	ND		1
3-Nitroaniline	ND	ND	mg/kg	1.1	0.20	EPA-8270C	ND		1

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03

Project: Biosolids

Project Number: Soilds Clean Up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Nitroaniline	ND	ND	mg/kg	1.1	0.20	EPA-8270C	ND		1
Nitrobenzene	ND	ND	mg/kg	0.54	0.053	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	ND	mg/kg	0.54	0.42	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ND	mg/kg	0.54	0.071	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ND	mg/kg	0.54	0.098	EPA-8270C	ND		1
Phenanthrene	ND	ND	mg/kg	0.54	0.18	EPA-8270C	ND		1
Pyrene	ND	ND	mg/kg	0.54	0.15	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ND	mg/kg	0.54	0.087	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ND	mg/kg	1.1	0.092	EPA-8270C	ND		1
2-Chlorophenol	ND	ND	mg/kg	0.54	0.082	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ND	mg/kg	0.54	0.11	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ND	mg/kg	0.54	0.10	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ND	mg/kg	2.7	0.16	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ND	mg/kg	2.7	0.98	EPA-8270C	ND		1
2-Methylphenol	ND	ND	mg/kg	0.54	0.047	EPA-8270C	ND		1
3- & 4-Methylphenol	1.1	1.1	mg/kg	1.1	0.18	EPA-8270C	ND		1
2-Nitrophenol	ND	ND	mg/kg	0.54	0.14	EPA-8270C	ND		1
4-Nitrophenol	ND	ND	mg/kg	1.1	0.18	EPA-8270C	ND		1
Pentachlorophenol	ND	ND	mg/kg	1.1	0.17	EPA-8270C	ND		1
Phenol	0.53	0.49	mg/kg	0.54	0.082	EPA-8270C	ND	J	1
2,4,5-Trichlorophenol	ND	ND	mg/kg	1.1	0.092	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ND	mg/kg	1.1	0.15	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	69.1	69.1	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	71.1	71.1	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	70.2	70.2	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	67.6	67.6	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.6	61.6	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	60.3	60.3	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/11/18 14:30	04/15/18 21:43	MK1	MS-B1	5.434	B010645

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03

Project: Biosolids

Project Number: Soilds Clean Up

Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture	0	7.67	%	0.05	0.05	Calc	ND		1
Organic Nitrogen	57000	52000	mg/kg	40	20	Calc	ND		1
Total Nitrogen	66000	61000	mg/kg	60	20	Calc	ND		1
pH	7.10	7.10	pH Units	0.05	0.05	EPA-9040	ND	pHdil	2
pH Measurement Temperature	22.2	22.2	C	0.1	0.1	EPA-9040	ND		2
Nitrate as N	3.8	3.5	mg/kg	2.0	0.52	EPA-300.0	ND	A07	3
Total Kjeldahl Nitrogen	66000	61000	mg/kg	4000	1600	EPA-351.2	ND	A07	4
Ammonia as N	9000	8300	mg/kg	500	250	EPA-350.1	ND	A07	5
Total Phosphorus	20000	18000	mg/kg	1000	620	EPA-365.4	ND	A07	6
Solids	100	92.3	%	0.05	0.05	SM-2540G			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC	Batch ID
1	Calc	04/09/18 17:01	04/27/18 10:54	MSA	Calc	1	BID0151	
2	EPA-9040	04/19/18 12:30	04/19/18 12:30	DIW	PH10	1	B011378	
3	EPA-300.0	04/10/18 13:00	04/12/18 12:52	EMW	IC8	2	B010300	
4	EPA-351.2	04/16/18 21:00	04/20/18 15:11	JMH	SC-1	100	B010955	
5	EPA-350.1	04/12/18 08:34	04/16/18 09:24	JMH	SC-1	47.170	B010544	
6	EPA-365.4	04/16/18 21:00	04/20/18 09:56	JMH	SC-1	100	B010956	
7	SM-2540G	04/17/18 01:15	04/17/18 01:15	DRC	MANUAL	1	B011004	

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P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Modified WET Test (STLC)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C		8600	umhos/c m	1.0	1.0	EPA-120.1			1
Total Dissolved Solids @ 180 C		4000	mg/L	500	500	EPA-160.1		ND	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	04/16/18 14:00	04/16/18 18:57	MEV	MET-1	1	B010901
2	EPA-160.1	04/16/18 17:30	04/16/18 17:30	CAD	MANUAL	50	B010931

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Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

WET Test (STLC)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chromium		4.2	mg/L	0.10	0.0092	EPA-6010B	ND		1
Copper		0.031	mg/L	0.10	0.012	EPA-6010B	0.017	J	1
Selenium		0.35	mg/L	0.20	0.11	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/26/18 12:00	04/26/18 17:32	KDF	PE-OP3	1	B012035

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03

Project: Biosolids

Project Number: Soilds Clean Up

Project Manager: Victorio Tostado

Total Concentrations (TTLC)

BCL Sample ID:	1811057-08	Client Sample Name: Composite Sample of 1-7, 4/5/2018 12:00:00AM, Jose C.							
Constituent	Dry Basis Result	As Recvd Result	Units	As Received PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	4.5	4.1	mg/kg	1.0	0.40	EPA-6010B	ND		1
Cadmium	0.82	0.76	mg/kg	0.50	0.052	EPA-6010B	ND		1
Chromium	94	87	mg/kg	0.50	0.050	EPA-6010B	0.11		1
Copper	300	280	mg/kg	1.0	0.050	EPA-6010B	ND		1
Lead	8.0	7.4	mg/kg	2.5	0.28	EPA-6010B	ND		1
Mercury	0.88	0.81	mg/kg	0.16	0.019	EPA-7471A	ND		2
Molybdenum	7.1	6.6	mg/kg	2.5	0.050	EPA-6010B	ND		1
Nickel	19	17	mg/kg	0.50	0.15	EPA-6010B	ND		1
Selenium	18	17	mg/kg	1.0	0.98	EPA-6010B	ND		1
Zinc	840	770	mg/kg	2.5	0.087	EPA-6010B	0.23		1
Potassium	3900	3600	mg/kg	50	5.0	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/10/18 20:05	04/11/18 09:39	JCC	PE-OP3	0.952	B010388
2	EPA-7471A	04/10/18 09:45	04/10/18 18:49	JP1	CETAC2	0.992	B010297

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Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B010654						
Aldrin	B010654-BLK1	ND	mg/kg	0.00050	0.000049	
Dieldrin	B010654-BLK1	ND	mg/kg	0.00050	0.000042	
PCB-1016	B010654-BLK1	ND	mg/kg	0.010	0.0026	
PCB-1221	B010654-BLK1	ND	mg/kg	0.010	0.0024	
PCB-1232	B010654-BLK1	ND	mg/kg	0.010	0.0044	
PCB-1242	B010654-BLK1	ND	mg/kg	0.010	0.0059	
PCB-1248	B010654-BLK1	ND	mg/kg	0.010	0.0037	
PCB-1254	B010654-BLK1	ND	mg/kg	0.010	0.0030	
PCB-1260	B010654-BLK1	ND	mg/kg	0.010	0.0056	
PCB-1262	B010654-BLK1	ND	mg/kg	0.010	0.0058	
PCB-1268	B010654-BLK1	ND	mg/kg	0.010	0.0019	
Total PCB's (Summation)	B010654-BLK1	ND	mg/kg	0.010	0.0050	
TCMX (Surrogate)	B010654-BLK1	80.2	%	20 - 130 (LCL - UCL)		
Decachlorobiphenyl (Surrogate)	B010654-BLK1	103	%	40 - 130 (LCL - UCL)		

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Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: B010654									
Aldrin	B010654-BS1	LCS	0.0042641	0.0050847	mg/kg	83.9	70 - 130		
Dieldrin	B010654-BS1	LCS	0.0041502	0.0050847	mg/kg	81.6	70 - 130		
TCMX (Surrogate)	B010654-BS1	LCS	0.0074325	0.010169	mg/kg	73.1	20 - 130		
Decachlorobiphenyl (Surrogate)	B010654-BS1	LCS	0.020941	0.020339	mg/kg	103	40 - 130		

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	Percent Recovery	Lab Quals
QC Batch ID: B010654		Used client sample: N								
Aldrin	MS	1811446-01	ND	0.0049020	0.0049342	mg/kg	99.3		50 - 140	
	MSD	1811446-01	ND	0.0057529	0.0050505	mg/kg	16.0	114	30	50 - 140
Dieldrin	MS	1811446-01	ND	0.0044678	0.0049342	mg/kg	90.5		40 - 140	
	MSD	1811446-01	ND	0.0053168	0.0050505	mg/kg	17.4	105	30	40 - 140
TCMX (Surrogate)	MS	1811446-01	ND	0.0073714	0.0098684	mg/kg	74.7		20 - 130	
	MSD	1811446-01	ND	0.0079579	0.010101	mg/kg	7.7	78.8		20 - 130
Decachlorobiphenyl (Surrogate)	MS	1811446-01	ND	0.020748	0.019737	mg/kg	105		40 - 130	
	MSD	1811446-01	ND	0.022279	0.020202	mg/kg	7.1	110		40 - 130

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B010645						
Acenaphthene	B010645-BLK1	ND	mg/kg	0.10	0.0092	
Acenaphthylene	B010645-BLK1	ND	mg/kg	0.10	0.018	
Aldrin	B010645-BLK1	ND	mg/kg	0.10	0.016	
Aniline	B010645-BLK1	ND	mg/kg	0.20	0.016	
Anthracene	B010645-BLK1	ND	mg/kg	0.10	0.050	
Benzidine	B010645-BLK1	ND	mg/kg	3.0	0.058	
Benzo[a]anthracene	B010645-BLK1	ND	mg/kg	0.10	0.041	
Benzo[b]fluoranthene	B010645-BLK1	ND	mg/kg	0.10	0.0094	
Benzo[k]fluoranthene	B010645-BLK1	ND	mg/kg	0.10	0.017	
Benzo[a]pyrene	B010645-BLK1	ND	mg/kg	0.10	0.026	
Benzo[g,h,i]perylene	B010645-BLK1	ND	mg/kg	0.10	0.011	
Benzoic acid	B010645-BLK1	ND	mg/kg	0.50	0.057	
Benzyl alcohol	B010645-BLK1	ND	mg/kg	0.10	0.0073	
Benzyl butyl phthalate	B010645-BLK1	ND	mg/kg	0.10	0.033	
alpha-BHC	B010645-BLK1	ND	mg/kg	0.10	0.035	
beta-BHC	B010645-BLK1	ND	mg/kg	0.10	0.040	
delta-BHC	B010645-BLK1	ND	mg/kg	0.10	0.018	
gamma-BHC (Lindane)	B010645-BLK1	ND	mg/kg	0.10	0.025	
bis(2-Chloroethoxy)methane	B010645-BLK1	ND	mg/kg	0.10	0.045	
bis(2-Chloroethyl) ether	B010645-BLK1	ND	mg/kg	0.10	0.026	
bis(2-Chloroisopropyl)ether	B010645-BLK1	ND	mg/kg	0.10	0.015	
bis(2-Ethylhexyl)phthalate	B010645-BLK1	ND	mg/kg	0.20	0.032	
4-Bromophenyl phenyl ether	B010645-BLK1	ND	mg/kg	0.10	0.026	
4-Chloroaniline	B010645-BLK1	ND	mg/kg	0.10	0.015	
2-Chloronaphthalene	B010645-BLK1	ND	mg/kg	0.10	0.012	
4-Chlorophenyl phenyl ether	B010645-BLK1	ND	mg/kg	0.10	0.011	
Chrysene	B010645-BLK1	ND	mg/kg	0.10	0.016	
4,4'-DDD	B010645-BLK1	ND	mg/kg	0.10	0.032	
4,4'-DDE	B010645-BLK1	ND	mg/kg	0.10	0.033	
4,4'-DDT	B010645-BLK1	ND	mg/kg	0.10	0.052	
Dibenzo[a,h]anthracene	B010645-BLK1	ND	mg/kg	0.10	0.019	
Dibenzofuran	B010645-BLK1	ND	mg/kg	0.10	0.013	
1,2-Dichlorobenzene	B010645-BLK1	ND	mg/kg	0.10	0.0084	
1,3-Dichlorobenzene	B010645-BLK1	ND	mg/kg	0.10	0.012	

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B010645						
1,4-Dichlorobenzene	B010645-BLK1	ND	mg/kg	0.10	0.018	
3,3-Dichlorobenzidine	B010645-BLK1	ND	mg/kg	0.20	0.024	
Dieldrin	B010645-BLK1	ND	mg/kg	0.10	0.031	
Diethyl phthalate	B010645-BLK1	ND	mg/kg	0.10	0.0073	
Dimethyl phthalate	B010645-BLK1	ND	mg/kg	0.10	0.0091	
Di-n-butyl phthalate	B010645-BLK1	ND	mg/kg	0.10	0.019	
2,4-Dinitrotoluene	B010645-BLK1	ND	mg/kg	0.10	0.030	
2,6-Dinitrotoluene	B010645-BLK1	ND	mg/kg	0.10	0.016	
Di-n-octyl phthalate	B010645-BLK1	ND	mg/kg	0.10	0.013	
1,2-Diphenylhydrazine	B010645-BLK1	ND	mg/kg	0.10	0.016	
Endosulfan I	B010645-BLK1	ND	mg/kg	0.20	0.062	
Endosulfan II	B010645-BLK1	ND	mg/kg	0.20	0.062	
Endosulfan sulfate	B010645-BLK1	ND	mg/kg	0.10	0.056	
Endrin	B010645-BLK1	ND	mg/kg	0.20	0.053	
Endrin aldehyde	B010645-BLK1	ND	mg/kg	0.50	0.044	
Fluoranthene	B010645-BLK1	ND	mg/kg	0.10	0.011	
Fluorene	B010645-BLK1	ND	mg/kg	0.10	0.013	
Heptachlor	B010645-BLK1	ND	mg/kg	0.10	0.024	
Heptachlor epoxide	B010645-BLK1	ND	mg/kg	0.10	0.065	
Hexachlorobenzene	B010645-BLK1	ND	mg/kg	0.10	0.012	
Hexachlorobutadiene	B010645-BLK1	ND	mg/kg	0.10	0.020	
Hexachlorocyclopentadiene	B010645-BLK1	ND	mg/kg	0.10	0.029	
Hexachloroethane	B010645-BLK1	ND	mg/kg	0.10	0.032	
Indeno[1,2,3-cd]pyrene	B010645-BLK1	ND	mg/kg	0.10	0.013	
Isophorone	B010645-BLK1	ND	mg/kg	0.10	0.0099	
2-Methylnaphthalene	B010645-BLK1	ND	mg/kg	0.10	0.0082	
Naphthalene	B010645-BLK1	ND	mg/kg	0.10	0.0085	
2-Naphthylamine	B010645-BLK1	ND	mg/kg	3.0	0.039	
2-Nitroaniline	B010645-BLK1	ND	mg/kg	0.10	0.027	
3-Nitroaniline	B010645-BLK1	ND	mg/kg	0.20	0.037	
4-Nitroaniline	B010645-BLK1	ND	mg/kg	0.20	0.037	
Nitrobenzene	B010645-BLK1	ND	mg/kg	0.10	0.0098	
N-Nitrosodimethylamine	B010645-BLK1	ND	mg/kg	0.10	0.077	
N-Nitrosodi-N-propylamine	B010645-BLK1	ND	mg/kg	0.10	0.013	

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B010645						
N-Nitrosodiphenylamine	B010645-BLK1	ND	mg/kg	0.10	0.018	
Phenanthrene	B010645-BLK1	ND	mg/kg	0.10	0.034	
Pyrene	B010645-BLK1	ND	mg/kg	0.10	0.027	
1,2,4-Trichlorobenzene	B010645-BLK1	ND	mg/kg	0.10	0.016	
4-Chloro-3-methylphenol	B010645-BLK1	ND	mg/kg	0.20	0.017	
2-Chlorophenol	B010645-BLK1	ND	mg/kg	0.10	0.015	
2,4-Dichlorophenol	B010645-BLK1	ND	mg/kg	0.10	0.021	
2,4-Dimethylphenol	B010645-BLK1	ND	mg/kg	0.10	0.019	
4,6-Dinitro-2-methylphenol	B010645-BLK1	ND	mg/kg	0.50	0.030	
2,4-Dinitrophenol	B010645-BLK1	ND	mg/kg	0.50	0.18	
2-Methylphenol	B010645-BLK1	ND	mg/kg	0.10	0.0086	
3- & 4-Methylphenol	B010645-BLK1	ND	mg/kg	0.20	0.034	
2-Nitrophenol	B010645-BLK1	ND	mg/kg	0.10	0.025	
4-Nitrophenol	B010645-BLK1	ND	mg/kg	0.20	0.034	
Pentachlorophenol	B010645-BLK1	ND	mg/kg	0.20	0.031	
Phenol	B010645-BLK1	ND	mg/kg	0.10	0.015	
2,4,5-Trichlorophenol	B010645-BLK1	ND	mg/kg	0.20	0.017	
2,4,6-Trichlorophenol	B010645-BLK1	ND	mg/kg	0.20	0.028	
2-Fluorophenol (Surrogate)	B010645-BLK1	96.5	%	20 - 130 (LCL - UCL)		
Phenol-d5 (Surrogate)	B010645-BLK1	110	%	30 - 130 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B010645-BLK1	104	%	30 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B010645-BLK1	110	%	30 - 140 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B010645-BLK1	67.6	%	20 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B010645-BLK1	102	%	30 - 150 (LCL - UCL)		

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: B010645									
Acenaphthene	B010645-BS1	LCS	1.4467	1.6949	mg/kg	85.4	50 - 130		
1,4-Dichlorobenzene	B010645-BS1	LCS	1.2813	1.6949	mg/kg	75.6	50 - 130		
2,4-Dinitrotoluene	B010645-BS1	LCS	0.77271	1.6949	mg/kg	45.6	50 - 130		L21
Hexachlorobenzene	B010645-BS1	LCS	0.97801	1.3559	mg/kg	72.1	40 - 130		
Hexachlorobutadiene	B010645-BS1	LCS	1.2408	1.6949	mg/kg	73.2	50 - 130		
Hexachloroethane	B010645-BS1	LCS	1.2723	1.6949	mg/kg	75.1	50 - 130		
Nitrobenzene	B010645-BS1	LCS	1.3072	1.6949	mg/kg	77.1	50 - 130		
N-Nitrosodi-N-propylamine	B010645-BS1	LCS	1.2222	1.6949	mg/kg	72.1	40 - 120		
Pyrene	B010645-BS1	LCS	1.3946	1.6949	mg/kg	82.3	40 - 150		
1,2,4-Trichlorobenzene	B010645-BS1	LCS	1.1617	1.6949	mg/kg	68.5	50 - 120		
4-Chloro-3-methylphenol	B010645-BS1	LCS	1.2448	1.6949	mg/kg	73.4	50 - 130		
2-Chlorophenol	B010645-BS1	LCS	1.3846	1.6949	mg/kg	81.7	50 - 130		
2-Methylphenol	B010645-BS1	LCS	1.2029	1.6949	mg/kg	71.0	50 - 130		
3- & 4-Methylphenol	B010645-BS1	LCS	2.5948	3.3898	mg/kg	76.5	50 - 130		
4-Nitrophenol	B010645-BS1	LCS	0.82054	1.6949	mg/kg	48.4	30 - 130		
Pentachlorophenol	B010645-BS1	LCS	0.37174	1.3559	mg/kg	27.4	20 - 130		
Phenol	B010645-BS1	LCS	1.4408	1.6949	mg/kg	85.0	40 - 120		
2,4,6-Trichlorophenol	B010645-BS1	LCS	1.0361	1.6949	mg/kg	61.1	50 - 130		
2-Fluorophenol (Surrogate)	B010645-BS1	LCS	1.1109	1.3559	mg/kg	81.9	20 - 130		
Phenol-d5 (Surrogate)	B010645-BS1	LCS	1.2155	1.3559	mg/kg	89.6	30 - 130		
Nitrobenzene-d5 (Surrogate)	B010645-BS1	LCS	1.1252	1.3559	mg/kg	83.0	30 - 130		
2-Fluorobiphenyl (Surrogate)	B010645-BS1	LCS	1.1607	1.3559	mg/kg	85.6	30 - 140		
2,4,6-Tribromophenol (Surrogate)	B010645-BS1	LCS	0.88499	1.3559	mg/kg	65.3	20 - 150		
p-Terphenyl-d14 (Surrogate)	B010645-BS1	LCS	0.59066	0.67797	mg/kg	87.1	30 - 150		

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Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	Percent RPD	Lab Quals
QC Batch ID: B010645		Used client sample: N								
Acenaphthene	MS	1807882-15	ND	1.2473	1.6447	mg/kg	75.8	30	30 - 140	
	MSD	1807882-15	ND	0.42107	1.6502	mg/kg	99.0	25.5	30	30 - 140 Q02,Q 03
1,4-Dichlorobenzene	MS	1807882-15	ND	1.1595	1.6447	mg/kg	70.5	30	50 - 130	
	MSD	1807882-15	ND	0.41543	1.6502	mg/kg	94.5	25.2	30	50 - 130 Q02,Q 03
2,4-Dinitrotoluene	MS	1807882-15	ND	0.71410	1.6447	mg/kg	43.4	30	50 - 130	Q03
	MSD	1807882-15	ND	0.16899	1.6502	mg/kg	123	10.2	30	50 - 130 Q02,Q 03
Hexachlorobenzene	MS	1807882-15	ND	0.86215	1.3158	mg/kg	65.5	30	50 - 130	
	MSD	1807882-15	ND	0.29252	1.3201	mg/kg	98.7	22.2	30	50 - 130 Q02,Q 03
Hexachlorobutadiene	MS	1807882-15	ND	1.0629	1.6447	mg/kg	64.6	30	50 - 130	
	MSD	1807882-15	ND	0.38345	1.6502	mg/kg	94.0	23.2	30	50 - 130 Q02,Q 03
Hexachloroethane	MS	1807882-15	ND	1.1088	1.6447	mg/kg	67.4	30	50 - 130	
	MSD	1807882-15	ND	0.40571	1.6502	mg/kg	92.8	24.6	30	50 - 130 Q02,Q 03
Nitrobenzene	MS	1807882-15	ND	1.1496	1.6447	mg/kg	69.9	30	30 - 120	
	MSD	1807882-15	ND	0.37812	1.6502	mg/kg	101	22.9	30	30 - 120 Q02,Q 03
N-Nitrosodi-N-propylamine	MS	1807882-15	ND	1.1206	1.6447	mg/kg	68.1	30	20 - 130	
	MSD	1807882-15	ND	0.44553	1.6502	mg/kg	86.2	27.0	30	20 - 130 Q02
Pyrene	MS	1807882-15	ND	1.2214	1.6447	mg/kg	74.3	30	40 - 140	
	MSD	1807882-15	ND	0.35586	1.6502	mg/kg	110	21.6	30	40 - 140 Q02,Q 03
1,2,4-Trichlorobenzene	MS	1807882-15	ND	1.0660	1.6447	mg/kg	64.8	30	50 - 130	
	MSD	1807882-15	ND	0.36903	1.6502	mg/kg	97.1	22.4	30	50 - 130 Q02,Q 03
4-Chloro-3-methylphenol	MS	1807882-15	ND	1.2154	1.6447	mg/kg	73.9	30	50 - 130	
	MSD	1807882-15	ND	0.39599	1.6502	mg/kg	102	24.0	30	50 - 130 Q02,Q 03
2-Chlorophenol	MS	1807882-15	ND	1.2527	1.6447	mg/kg	76.2	30	50 - 130	
	MSD	1807882-15	ND	0.44208	1.6502	mg/kg	95.7	26.8	30	50 - 130 Q02,Q 03
2-Methylphenol	MS	1807882-15	ND	1.0523	1.6447	mg/kg	64.0	30	50 - 130	
	MSD	1807882-15	ND	0.42233	1.6502	mg/kg	85.4	25.6	30	50 - 130 Q02,Q 03
3- & 4-Methylphenol	MS	1807882-15	ND	2.4084	3.2895	mg/kg	73.2	30	50 - 130	
	MSD	1807882-15	ND	0.80483	3.3003	mg/kg	99.8	24.4	30	50 - 130 Q02,Q 03

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Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	Percent RPD	Lab Quals
QC Batch ID: B010645		Used client sample: N								
4-Nitrophenol	MS	1807882-15	ND	0.72495	1.6447	mg/kg	44.1	30	30 - 140	
	MSD	1807882-15	ND	0.26587	1.6502	mg/kg	92.7	16.1	30	30 - 140 Q02,Q 03
Pentachlorophenol	MS	1807882-15	ND	0.35769	1.3158	mg/kg	27.2	30	30 - 130	Q03
	MSD	1807882-15	ND	0.085594	1.3201	mg/kg	123	6.5	30	30 - 130 J,Q02, Q03
Phenol	MS	1807882-15	ND	1.2935	1.6447	mg/kg	78.6	30	40 - 150	
	MSD	1807882-15	ND	0.43675	1.6502	mg/kg	99.0	26.5	30	40 - 150 Q02,Q 03
2,4,6-Trichlorophenol	MS	1807882-15	ND	0.89055	1.6447	mg/kg	54.1	30	50 - 130	
	MSD	1807882-15	ND	0.28092	1.6502	mg/kg	104	17.0	30	50 - 130 Q02,Q 03
2-Fluorophenol (Surrogate)	MS	1807882-15	ND	0.99202	1.3158	mg/kg	75.4	20	20 - 130	
	MSD	1807882-15	ND	0.33579	1.3201	mg/kg	98.8	25.4	20	20 - 130
Phenol-d5 (Surrogate)	MS	1807882-15	ND	1.1066	1.3158	mg/kg	84.1	30	30 - 130	
	MSD	1807882-15	ND	0.39035	1.3201	mg/kg	95.7	29.6	30	30 - 130 S09
Nitrobenzene-d5 (Surrogate)	MS	1807882-15	ND	1.0166	1.3158	mg/kg	77.3	30	30 - 130	
	MSD	1807882-15	ND	0.35241	1.3201	mg/kg	97.0	26.7	30	30 - 130 S09
2-Fluorobiphenyl (Surrogate)	MS	1807882-15	ND	0.98340	1.3158	mg/kg	74.7	30	30 - 140	
	MSD	1807882-15	ND	0.34081	1.3201	mg/kg	97.1	25.8	30	30 - 140 S09
2,4,6-Tribromophenol (Surrogate)	MS	1807882-15	ND	0.68793	1.3158	mg/kg	52.3	20	20 - 150	
	MSD	1807882-15	ND	0.23546	1.3201	mg/kg	98.0	17.8	20	20 - 150 S09
p-Terphenyl-d14 (Surrogate)	MS	1807882-15	ND	0.48723	0.65789	mg/kg	74.1	30	30 - 150	
	MSD	1807882-15	ND	0.13106	0.66007	mg/kg	115	19.9	30	30 - 150 S09

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Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B\D0151						
Total Nitrogen	B\D0151-BLK1	ND	mg/kg	60	20	
Organic Nitrogen	B\D0151-BLK1	ND	mg/kg	40	20	
Moisture	B\D0151-BLK1	ND	%	0.05	0.05	
QC Batch ID: B010300						
Nitrate as N	B010300-BLK1	ND	mg/kg	1.0	0.26	
QC Batch ID: B010544						
Ammonia as N	B010544-BLK1	ND	mg/kg	10	5.0	
QC Batch ID: B010955						
Total Kjeldahl Nitrogen	B010955-BLK1	ND	mg/kg	40	16	
QC Batch ID: B010956						
Total Phosphorus	B010956-BLK1	ND	mg/kg	10	6.2	
QC Batch ID: B011378						
pH	B011378-BLK1	ND	pH Units	0.05	0.05	
pH Measurement Temperature	B011378-BLK1	ND	C	0.1	0.1	

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 04/27/2018 14:03
Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: B010300									
Nitrate as N	B010300-BS1	LCS	4.7940	5.0000	mg/kg	95.9	90 - 110		
QC Batch ID: B010544									
Ammonia as N	B010544-BS1	LCS	93.940	100.00	mg/kg	93.9	80 - 120		
QC Batch ID: B010955									
Total Kjeldahl Nitrogen	B010955-BS1	LCS	411.88	400.00	mg/kg	103	90 - 110		
QC Batch ID: B010956									
Total Phosphorus	B010956-BS1	LCS	220.68	200.00	mg/kg	110	85 - 115		
QC Batch ID: B011378									
pH	B011378-BS1	LCS	4.0240	4.0000	pH Units	101	95 - 105		

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Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Chemical Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	RPD	Percent Recovery
QC Batch ID: B010300 Used client sample: N										
Nitrate as N	DUP	1810993-01	0.67000	0.62000		mg/kg	7.8		20	J
	MS	1810993-01	0.67000	50.111	50.505	mg/kg		97.9		80 - 120
	MSD	1810993-01	0.67000	49.960	50.505	mg/kg	0.3	97.6	20	80 - 120
QC Batch ID: B010544 Used client sample: N										
Ammonia as N	DUP	1810957-01	501.32	356.13		mg/kg	33.9		20	A02
	MS	1810957-01	501.32	429.55	100.00	mg/kg		-71.8		80 - 120
	MSD	1810957-01	501.32	488.73	98.039	mg/kg	12.9	-12.9	20	80 - 120
QC Batch ID: B010889 Used client sample: N										
Solids	DUP	1733840-01	88.440	88.510		%	0.1		20	
QC Batch ID: B010955 Used client sample: Y - Description: Composite Sample of 1-7, 04/05/2018 00:00										
Total Kjeldahl Nitrogen	DUP	1811057-08	60714	61090		mg/kg	0.6		20	
	MS	1811057-08	60714	63726	400.00	mg/kg		753		90 - 110
	MSD	1811057-08	60714	63130	400.00	mg/kg	0.9	604	20	90 - 110
QC Batch ID: B010956 Used client sample: Y - Description: Composite Sample of 1-7, 04/05/2018 00:00										
Total Phosphorus	DUP	1811057-08	18092	18134		mg/kg	0.2		20	
	MS	1811057-08	18092	19066	200.00	mg/kg		487		80 - 120
	MSD	1811057-08	18092	18124	200.00	mg/kg	5.1	16.0	20	80 - 120
QC Batch ID: B011004 Used client sample: Y - Description: Composite Sample of 1-7, 04/05/2018 00:00										
Solids	DUP	1811057-08	92.330	92.000		%	0.4		20	
QC Batch ID: B011378 Used client sample: N										
pH	DUP	1810894-01	6.8450	6.9340		pH Units	1.3		20	

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Project: Biosolids
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Project Manager: Victorio Tostado

Modified WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B010931						
Total Dissolved Solids @ 180 C	B010931-BLK1	ND	mg/L	6.7	6.7	

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Modified WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: B010901									
Electrical Conductivity @ 25 C	B010901-BS1	LCS	319.00	303.00	umhos/cm	105	90 - 110		
QC Batch ID: B010931									
Total Dissolved Solids @ 180 C	B010931-BS1	LCS	580.00	586.00	mg/L	99.0	90 - 110		

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Project: Biosolids
Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits			
								RPD	RPD	Lab Recovery	Quals
QC Batch ID: B010901			Used client sample: N								
Electrical Conductivity @ 25 C	DUP	1811084-01	187.00	187.10		umhos/cm	0.1			20	
QC Batch ID: B010931			Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1811084-01	176.68	175.34		mg/L	0.8			20	

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WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B012035						
Chromium	B012035-BLK1	ND	mg/L	0.10	0.0092	
Copper	B012035-BLK1	0.016950	mg/L	0.10	0.012	J
Selenium	B012035-BLK1	ND	mg/L	0.20	0.11	

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WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: B012035									
Chromium	B012035-BS1	LCS	20.041	20.000	mg/L	100	85 - 115		
Copper	B012035-BS1	LCS	19.044	20.000	mg/L	95.2	85 - 115		
Selenium	B012035-BS1	LCS	1.7845	2.0000	mg/L	89.2	85 - 115		

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WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	Percent Recovery	Lab Quals
QC Batch ID: B012035		Used client sample: N								
Chromium	DUP	1811102-24	0.027489	0.017245		mg/L	45.8	20		J,A02
	MS	1811102-24	0.027489	20.240	20.408	mg/L		99.0	75 - 125	
	MSD	1811102-24	0.027489	19.548	20.408	mg/L	3.5	95.7	20	75 - 125
Copper	DUP	1811102-24	0.063169	0.049489		mg/L	24.3	20		J,A02
	MS	1811102-24	0.063169	18.828	20.408	mg/L		91.9	75 - 125	
	MSD	1811102-24	0.063169	18.658	20.408	mg/L	0.9	91.1	20	75 - 125
Selenium	DUP	1811102-24	ND	ND		mg/L		20		
	MS	1811102-24	ND	1.8301	2.0408	mg/L		89.7	75 - 125	
	MSD	1811102-24	ND	1.7362	2.0408	mg/L	5.3	85.1	20	75 - 125

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Project Manager: Victorio Tostado

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B010297						
Mercury	B010297-BLK1	ND	mg/kg	0.16	0.019	
QC Batch ID: B010388						
Arsenic	B010388-BLK1	ND	mg/kg	1.0	0.40	
Cadmium	B010388-BLK1	ND	mg/kg	0.50	0.052	
Chromium	B010388-BLK1	0.12023	mg/kg	0.50	0.050	J
Copper	B010388-BLK1	ND	mg/kg	1.0	0.050	
Lead	B010388-BLK1	ND	mg/kg	2.5	0.28	
Molybdenum	B010388-BLK1	ND	mg/kg	2.5	0.050	
Nickel	B010388-BLK1	ND	mg/kg	0.50	0.15	
Selenium	B010388-BLK1	ND	mg/kg	1.0	0.98	
Zinc	B010388-BLK1	0.24400	mg/kg	2.5	0.087	J
Potassium	B010388-BLK1	ND	mg/kg	50	5.0	

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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: B010297									
Mercury	B010297-BS1	LCS	0.82032	0.80000	mg/kg	103	80 - 120		
QC Batch ID: B010388									
Arsenic	B010388-BS1	LCS	8.9794	10.000	mg/kg	89.8	75 - 125		
Cadmium	B010388-BS1	LCS	9.6976	10.000	mg/kg	97.0	75 - 125		
Chromium	B010388-BS1	LCS	106.35	100.00	mg/kg	106	75 - 125		
Copper	B010388-BS1	LCS	95.916	100.00	mg/kg	95.9	75 - 125		
Lead	B010388-BS1	LCS	98.998	100.00	mg/kg	99.0	75 - 125		
Molybdenum	B010388-BS1	LCS	102.67	100.00	mg/kg	103	75 - 125		
Nickel	B010388-BS1	LCS	106.32	100.00	mg/kg	106	75 - 125		
Selenium	B010388-BS1	LCS	9.1898	10.000	mg/kg	91.9	75 - 125		
Zinc	B010388-BS1	LCS	100.27	100.00	mg/kg	100	75 - 125		
Potassium	B010388-BS1	LCS	531.98	500.00	mg/kg	106	75 - 125		

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Project Number: Soilds Clean Up
Project Manager: Victorio Tostado

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	Percent RPD	Percent Recovery
QC Batch ID: B010297		Used client sample: N								
Mercury	DUP	1810982-02	ND	ND		mg/kg			20	
	MS	1810982-02	ND	0.81062	0.76923	mg/kg		105		80 - 120
	MSD	1810982-02	ND	0.81062	0.76923	mg/kg	0	105	20	80 - 120
QC Batch ID: B010388		Used client sample: N								
Arsenic	DUP	1811370-01	7.4099	5.5176		mg/kg	29.3		20	Q01
	MS	1811370-01	7.4099	16.680	10.000	mg/kg		92.7		75 - 125
	MSD	1811370-01	7.4099	12.992	10.000	mg/kg	24.9	55.8	20	75 - 125
Cadmium	DUP	1811370-01	0.22935	0.24648		mg/kg	7.2		20	J
	MS	1811370-01	0.22935	9.9747	10.000	mg/kg		97.5		75 - 125
	MSD	1811370-01	0.22935	8.7162	10.000	mg/kg	13.5	84.9	20	75 - 125
Chromium	DUP	1811370-01	38.932	40.073		mg/kg	2.9		20	
	MS	1811370-01	38.932	145.69	100.00	mg/kg		107		75 - 125
	MSD	1811370-01	38.932	125.17	100.00	mg/kg	15.2	86.2	20	75 - 125
Copper	DUP	1811370-01	40.385	39.062		mg/kg	3.3		20	
	MS	1811370-01	40.385	151.17	100.00	mg/kg		111		75 - 125
	MSD	1811370-01	40.385	131.45	100.00	mg/kg	14.0	91.1	20	75 - 125
Lead	DUP	1811370-01	110.56	124.93		mg/kg	12.2		20	
	MS	1811370-01	110.56	214.21	100.00	mg/kg		104		75 - 125
	MSD	1811370-01	110.56	193.03	100.00	mg/kg	10.4	82.5	20	75 - 125
Molybdenum	DUP	1811370-01	0.34041	0.32229		mg/kg	5.5		20	J
	MS	1811370-01	0.34041	92.903	100.00	mg/kg		92.6		75 - 125
	MSD	1811370-01	0.34041	86.535	100.00	mg/kg	7.1	86.2	20	75 - 125
Nickel	DUP	1811370-01	35.195	38.894		mg/kg	10.0		20	
	MS	1811370-01	35.195	140.81	100.00	mg/kg		106		75 - 125
	MSD	1811370-01	35.195	118.70	100.00	mg/kg	17.0	83.5	20	75 - 125
Selenium	DUP	1811370-01	ND	ND		mg/kg			20	
	MS	1811370-01	ND	7.8360	10.000	mg/kg		78.4		75 - 125
	MSD	1811370-01	ND	6.3847	10.000	mg/kg	20.4	63.8	20	75 - 125
Zinc	DUP	1811370-01	95.543	103.08		mg/kg	7.6		20	
	MS	1811370-01	95.543	205.01	100.00	mg/kg		109		75 - 125
	MSD	1811370-01	95.543	179.50	100.00	mg/kg	13.3	84.0	20	75 - 125
Potassium	DUP	1811370-01	1146.5	1320.6		mg/kg	14.1		20	
	MS	1811370-01	1146.5	2064.9	500.00	mg/kg		184		75 - 125
	MSD	1811370-01	1146.5	1833.6	500.00	mg/kg	11.9	137	20	75 - 125
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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- MPN Most Probable Number
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration is more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A10 Detection and quantitation limits were raised due to matrix interference.
- L21 The Laboratory Control Sample Soil (LCSS) recovery is not within laboratory established control limits.
- Q01 Sample precision is not within the control limits.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- pHdil pH result reported on a 1:8 dilution of sample